

## PTO FORM 4/92

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

ATTY DOCKET:

19789-8

SERIAL NO.:

09/356,926

APPLICANT(S):

Wim J. van Ooij, et al.

FILING DATE:

July 19, 1999

GROUP:

1742

FOR: SILANE COATINGS FOR METALS

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Exam Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
mm	2 7 5 1 3 1 4	11/03/54	Keil	117	72
mm	3 0 2 2 1 9 6	12/04/57	Jenkins et al.	117	127
mm	3 2 4 6 6 7 1	04/19/66	Stein et al.	138	109
mm	3 8 1 6 1 5 2	06/11/74	Yates	106	287SE
mm	3 8 7 3 3 3 4	03/25/75	Lee et al.	106	287SE
mm	3 8 7 9 2 0 6	04/22/75	Nestler et al.	106	12
mm	3 9 6 0 8 0 0	06/01/76	Kohl, Jr.	260	328SB
mm	4 0 0 0 3 4 7	12/28/76	Ranney et al.	428	419
mm	4 0 5 9 4 7 3	11/22/77	Okami	156	308
mm	4 0 6 4 3 1 3	12/20/77	Takiguchi et al.	428	447
mm	4 1 7 9 5 3 7	12/18/79	Rykowski	487	387

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
2 1 1 0 4 6 1	07/26/94	Canada	—	—
0 4 3 5 7 8 1 A2	07/03/91	EPO	—	—
0 5 3 3 6 0 6 A1	03/24/93	EPO	—	—
0 5 7 9 2 5 3 B1	0/19/94	EPO	—	—

## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

mm	Buchwalter, L.P., et al. Adhesion of polyimides to ceramics: Effects of aminopropyltriethoxysilane and temperature and humidity exposure on adhesion, <i>J. Adhesions Sci. Technol.</i> , Vol. 5, No. 4, pp. 333-343 (1991) (no month)
mm	Henriksen, P.N., et al. Inelastic electron tunneling spectroscopic studies of alkoxysilanes adsorbed on alumina, <i>J. Adhesion Sci. Technol.</i> , Vol. 5, No. 4, pp.321-331 (1991) (no month)
mm	Hornstrom, S.E., et al., Paint Adhesion and Corrosion of Performance of Chromium-Free Pretreatment of 55% Al-Zn-coated Steel, <i>J. Adhesion Sci. Technol.</i> Vol. 10, No. 9, pps. 987-990 (1997) - 883-904 (1996) - (no month) -
mm	Hornstrom, S.E., et al., Characterization of Thin Films of Organofunctional and Non-Functional Silanes on 55A1-43, 4Zn-1.6Si Alloy Coated Steel, <i>ECASIA 97</i> , pp. 987-990 (1997) (no month).

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Lalith 5/17/07

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<i>ML</i>	4 2 3 1 9 1 0	11/04/80	Plueddemann	260	29.4R
<i>ML</i>	4 2 4 3 7 1 8	01/06/81	Murai et al.	428	411
<i>ML</i>	4 3 1 5 9 7 0	02/16/82	McGee	428	412
<i>ML</i>	4 4 0 1 5 0 0	08/30/83	Hamada et al.	156	307.5
<i>ML</i>	4 4 0 9 2 6 6	10/11/83	Wieczorrek et al.	427	302
<i>ML</i>	4 4 4 1 9 4 6	04/10/84	Sharma	156	307.3
<i>ML</i>	4 4 5 7 9 7 0	07/03/84	Das et al.	428	290
<i>ML</i>	4 4 6 1 8 6 7	07/24/84	Surprenant	524	2788
<i>ML</i>	4 4 8 9 1 9 1	12/18/84	Chung, deceased	524	2779
<i>ML</i>	4 5 3 4 8 1 5	08/13/85	Hamada et al.	156	307.5
<i>ML</i>	4 6 1 8 3 8 9	10/21/86	Agodoa	156	307.5
<i>ML</i>	4 6 8 1 6 3 6	07/21/87	Saito et al.	1026	287.15

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
3 4 4 3 9 2 6A1	06/12/86	Germany		
53 3 0 7 6 (B)	02/02/78	Japan		
56 1 6 1 4 7 5	12/11/81	Japan		
58 5 2 0 3 6 (B)	11/19/81	Japan		
60 2 0 8 4 8 0	10/21/85	Japan		
60 8 1 2 5 6	05/09/85	Japan		

## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

<i>ML</i>	Plueddemann, Edwin P., Silane primers for epoxy adhesives, <i>J. Adhesion Sci. Technol.</i> , Vol. 2, No. 3, pp. 179-188 (1988) (no month)
<i>ML</i>	Plueddemann, Edwin P., Reminiscing on Silane Coupling Agents, <i>J. Adhesion Sci. Technol.</i> Vol. 5, No. 4, pp. 261-277 (1991) (no month)
<i>ML</i>	Plueddemann, Edwin P., et al. Adhesion Enhancing Additives for Silane Coupling Agents, 42nd Annual Conference, Composites Institute, The Society of the Plastics Industry, Inc., (February 2-6, 1987)

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*Lahle*

5/17/01

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Exam Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
ML	4 7 1 9 2 6 2	01/12/88	Plueddemann	525	105
ML	4 8 6 3 7 9 4	09/05/89	Fujii et al.	428	325
ML	5 0 5 1 1 2 9	09/24/91	Cuthbert et al.	106	2
ML	5 0 7 3 1 9 5	12/17/91	Cuthbert et al.	106	2
ML	5 0 7 3 4 5 6	12/17/91	Palladino	428 106	2 446
ML	5 1 0 8 7 9 3	04/28/92	van Ooij et al.	427	327
ML	5 2 0 0 2 7 5	04/06/93	van Ooij et al.	428	623
ML	5 2 0 3 9 7 5	04/20/93	Richardson	204	181-1
ML	5 2 1 7 7 5 1	06/08/93	King et al.	427	98
ML	5 2 2 1 3 7 1	06/22/93	Miller	128	273
ML	5 2 9 2 5 4 9	03/08/94	van Ooij et al.	427	556

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
60 2 1 3 9 0 2	10/26/85	Japan	—	—
62 7 5 3 8	01/14/87	Japan	—	—
62 5 7 4 7 0	03/13/87	Japan	—	—
63 3 4 7 9 3 (B)	07/12/87	Japan	—	—
63 9 7 2 6 6	04/27/88	Japan	—	—
63 9 7 2 6 7	04/27/88	Japan	—	—

## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

ML	Pu, Z., et al., Hydrolysis Kinetics and Stability of Bis (Triethoxysilyl) Ethane in Water-Ethanol Solution by FTIR Spectroscopy, <i>Journal of Adhesion Science and Technology</i> (1996) (no month)
ML	Sabata, A., et al., Trends toward a better understanding of the interface in painted metals, <i>Trends in Corrosion Research</i> , 1, pp. 181-193 (1993) (no month)
ML	Sabata, A., et al., The interphase in painted metals pretreated by functional silanes, <i>J. Adhesion Sci. Technol.</i> , Vol. 7, No. 11, pp. 1153-1170 (1993) (no month)
ML	Sabata, A. Et al., TOFSIMS Studies of Cleaning Procedures and Silane Surface Treatments of Steels, <i>Journal of Testing and Evaluation</i> , JTRVA, Vol. 23, No. 2, pp. 119-125 (March 1995)

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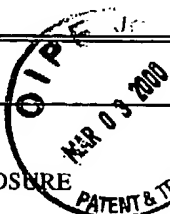
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Carville 5/17/01

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Exam Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
ML	5 3 2 2 7 1 3	06/21/94	van Ooij et al.	427	327
ML	5 3 2 6 5 9 4	07/05/94	Sabata et al.	427	327
ML	R E 3 4 6 7 5	07/26/94	Plueddemann deceased	106	287.1
ML	5 3 6 3 9 9 4	11/15/94	Angeline	222	529
ML	5 3 8 9 4 0 5	02/14/95	Purnell et al.	427	387
ML	5 3 9 3 3 5 3	02/28/95	Bishop	188	353
ML	5 4 1 2 0 1 1	05/02/95	Morris et al.	524	1261
ML	5 4 3 3 9 7 6	07/18/95	van Ooij et al.	427	327
ML	5 4 5 5 0 8 0	10/03/95	van Ooij et al.	427	470
ML	5 4 6 8 8 9 3	11/21/95	Parker et al.	556	427
ML	5 4 7 8 6 5 5	12/26/95	Sabata et al.	428	469
ML	5 4 9 8 4 8 1	03/12/96	van Ooij	428	413

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
ML	5 - 3 3 2 7 5 (B)	05/19/93	Japan		
ML	6 1 8 4 7 9 2	07/05/94	Japan		
ML	WO 98 3 0 7 3 5	07/16/98	PCT		
ML	WO 99 2 0 6 8 2	04/29/99	PCT		
ML	WO 99 2 0 7 0 5	04/29/99	PCT		

## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

ML	van Ooij, W. J., et al. Characterization of Films of Organofunctional Silanes by ToF-SIMS, <i>Surface and Interface Analysis</i> , Vol. 20, pp.475-484 (1993) (no month)
ML	van Ooij, W. J., et al. Modifications of the Interface Between Paints and Stainless Steels by Means of an Interphase Crosslinked Organofunctional, <i>Materials Research Society Symposium Proceedings</i> , Vol. 304, pp. 155-160, (1993) (no month)
ML	van Ooij, W. J., et al. Novel Silane-Based Pretreatments of Metals to Replace Chromate and Phosphate Treatment, <i>2nd Annual Advanced Techniques for Replacing Chromium: An Information Exchange</i> , prepared by David S. Vizslay, Concurrent Technologies Corp. NDCEE, Seven Springs Mountain Resort, Champion, PA (November 7-8, 1995) pp. 287-310
ML	van Ooij, W. J., et al. On the Use, Characterization and Performance of Silane Coupling Agents Between Organic Coatings and Metallic or Ceramic Substrates, <i>American Institute of Physics</i> , pp. 305-321 (1996) (no month)
ML	van Ooij, W. J., et al., Silane-Based Pretreatments of Al and its Alloys as Chromate Alternatives, <i>Aluminium Surface Science Technology</i> , "Elzenveld" Antwerp-Belgium, (May 12-15, 1997)

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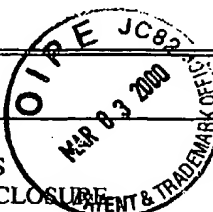
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C. Miller 5/17/01

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Exam Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
ML	5 5 2 0 7 6 8	05/28/96	Crook et al.	156	319
ML	5 5 3 9 0 3 1	07/23/96	van Ooij	524	188
ML	5 6 0 3 8 1 8	02/18/97	Brent et al.	204	488
ML	5 6 0 6 8 8 4	03/04/97	Pettersson et al.	72	41
ML	5 6 3 3 0 3 8	05/27/97	Ruschau	427	239
ML	5 6 3 9 5 5 5	06/17/97	Bishop	428	447
ML	5 7 0 0 5 2 3	12/23/97	Petrole et al.	427	397-8
ML	5 7 5 0 1 9 7	05/12/98	van Ooij et al.	427	318
ML	5 7 5 9 6 2 9	06/02/98	van Ooij et al.	427	384
ML	5 7 8 9 0 8 0	08/04/98	Grimberg et al.	428	379
ML	5 9 0 7 0 1 5	05/25/99	Sexsmith	524	837

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## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

ML	van Ooij, W. J. et al., Silane Coupling Agent Treatments of Metals for Corrosion Protection, Presented at the Fourth International Forum and business Development Conference on Surface Modification, Couplants and Adhesion Promoters, Adhesion Coupling Agent Technology 97, Boston, MA (September 22-24, 1997)
ML	van Ooij, W. J., et al., Pretreatment of Metals for Painting by Organofunctional Silanes, Extended Abstract of Paper Presented at 1997 International Symposium on Advances in Corrosion Protection by Organic Coatings, Noda, Japan (October 29-31, 1997)
ML	van Ooij, W. J., et al., Rubber to Metal Bonding, Presented at the International Conference on Rubbers, Calcutta, India (December 12-14, 1997)
ML	Walker, P., Organosilanes as adhesion promoters, <i>J. Adhesion Sci. Technol.</i> Vol 5, No. 4, pp. 279-305 (1991) (no month)
ML	Wu, G. L. Et al. Alcoholysis of Chlorosilanes and the Synthesis of Silane Coupling Agents, <i>Inst. Chem., Acad. Sin., Peking, People Rep. China, Hua Hsueh Hsueh Pao</i> (1980) (Abstract Only) (no month)
ML	Yuan, W., et al., Characterization of Organofunctional Silane Films on Zinc Substrates, Submitted to <i>Journal of Colloid and Interface Science</i> , (August 30, 1996)
ML	Zhang, B. C., et al., Characterization of Silane Films Deposited on Iron Surfaces, Submitted to <i>Langmuir</i> , First Revision, (May 3, 1996)

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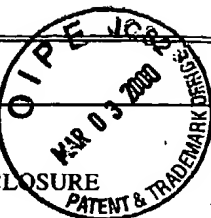
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OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
ML	Abstract of Japanese patent number <del>62-79732 (10/04/94)</del> 06-279,732 (10/4/94)
ML	Abstract of Japanese patent number <del>41-6174 (04/08/92)</del> 04-106,174 (4/8/92)
ML	Abstract of Japanese patent number 62-216727 (09/24/87)
ML	Abstract of Japanese patent number <del>40-46932 (02/17/92)</del> 04-046932 (2/17/92)
ML	Comyn, J., et al., An examination of the interaction of silanes containing carbon-carbon double bonds with aluminum oxide by inelastic electron tunneling spectroscopy, <i>Int. J. Adhesion</i> (1990), 10(1), 13-18 (abstract only) (no month)
ML	Kurth, D.G., et al., Monomolecular layers and thin films of silane coupling agents by vapor-phase adsorption on oxidized aluminum, <i>J. Phys. Chem</i> (1992), 96(16), 6707-12 (abstract only) (no month)
ML	van Ooij, W. J., Silane-based Metal Pretreatments to Replace Phosphates and Chromates; copy of overhead slides presented at the 3rd Annual Advanced Techniques for Replacing Chromium: An Information Exchange and Technology Demonstration, November 4-6, 1996
ML	Abstract of Japanese patent number 59-185779 (10/22/84)
ML	Abstract of Japanese patent number 07-329104 (12/19/95)
ML	Abstract of Japanese patent number 62-83034 (04/16/87)
ML	Abstract of Japanese patent number 53-232 (01/05/78)

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C. Kille

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